Dominion Nuclear Connecticut, Inc.
Millstone Power Station
Rope Ferry Road, Waterford, CT 06385

Dominion®

JUN 1 1 2007

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Serial No. 07-0396
MPS Lic/GJC R0
Docket No. 50-423
License No. NPF-49

DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNIT 3
LICENSEE EVENT REPORT 2007-002-00
LOSS OF OFFSITE POWER CAUSED BY
TRANSMISSION SYSTEM OPERATOR WHILE DEFUELED

This letter forwards Licensee Event Report (LER) 2007-001-00 documenting an event that occurred at Millstone Power Station Unit 3, on April 25, 2007. This LER is being submitted pursuant to 10 CFR 50.73(a)(2)(iv)(A), as any event or condition that resulted in manual or automatic actuation of any system listed in 10 CFR 50.73(a)(2)(iv)(B), i.e., safety systems.

If you have any questions or require additional information, please contact Mr. David W. Dodson at (860) 447-1791, extension 2346.

Very truly yours,

J. Alan Price
Site Vice President - Millstone

IE22

NRR

Attachments: 1

Commitments made in this letter: None.

cc: U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Mr. J. D.Hughey
NRC Senior Project Manager Millstone Units 2 and 3
U. S. Nuclear Regulatory Commission, Mail Stop 8 B3
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

Mr. S. M. Schneider
NRC Senior Resident Inspector
Millstone Power Station

Docket No. 50-423
License No. NPF-49

Attachment 1

LICENSEE EVENT REPORT 2007-002-00
LOSS OF OFFSITE POWER CAUSED BY
TRANSMISSION SYSTEM OPERATOR WHILE DEFUELED

Millstone Power Station Unit 3
Dominion Nuclear Connecticut, Inc. (DNC)

NRC FORM 366 (6-2004) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104 EXPIRES 06/30/2007

Estimated burden per response to comply with this mandatory information collection request: 50 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

1. FACILITY NAME	2. DOCKET NUMBER	3. PAGE
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4. TITLE

Loss of Offsite Power Caused by Transmission System Operator While Defueled

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MO	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MO	DAY	YEAR	FACILITY NAME	DOCKET NUMBER 05000
04	25	2007	2007	–002–	00	06	11	2007	FACILITY NAME	DOCKET NUMBER 05000

9. OPERATING MODE	N/A
10. POWER LEVEL	000

11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: *(Check all that apply)*

20.2201(b)	20.2203(a)(3)(ii)	50.73(a)(2)(ii)(B)	50.73(a)(2)(ix)(A)
20.2201(d)	20.2203(a)(4)	50.73(a)(2)(iii)	50.73(a)(2)(x)
20.2203(a)(1)	50.36(c)(1)(i)(A)	X 50.73(a)(2)(iv)(A)	73.71(a)(4)
20.2203(a)(2)(i)	50.36(c)(1)(ii)(A)	50.73(a)(2)(v)(A)	73.71(a)(5)
20.2203(a)(2)(ii)	50.36(c)(2)	50.73(a)(2)(v)(B)	OTHER
20.2203(a)(2)(iii)	50.46(a)(3)(ii)	50.73(a)(2)(v)(C)	Specify in Abstract below or in NRC Form 366A
20.2203(a)(2)(iv)	50.73(a)(2)(i)(A)	50.73(a)(2)(v)(D)	
20.2203(a)(2)(v)	50.73(a)(2)(i)(B)	50.73(a)(2)(vii)	
20.2203(a)(2)(vi)	50.73(a)(2)(i)(C)	50.73(a)(2)(viii)(A)	
20.2203(a)(3)(i)	50.73(a)(2)(ii)(A)	50.73(a)(2)(viii)(B)	

12. LICENSEE CONTACT FOR THIS LER

NAME	TELEPHONE NUMBER (Include Area Code)
David W. Dodson, Supervisor Nuclear Station Licensing	860-447-1791

13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED			15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR
☐	YES (If yes, complete EXPECTED SUBMISSION DATE).	☒ NO				

16. ABSTRACT *(Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)*

At 1047 on April 25, 2007 with the plant shutdown (0% power) and in a defueled condition, a loss of offsite power (LOP) caused by a switching error on the part of the offsite transmission system operator (TSO) occurred at Millstone Power Station Unit 3 (MPS3). Millstone Power Station Unit 2 remained at 100% power and connected to the grid throughout the event. The MPS3 "A" emergency diesel generator started automatically and supplied power to the "A" train 4160 volt AC emergency bus.

At the time of the event, the applicable plant technical specifications (TS) such as Reactor Coolant System Pressure / Temperature Limits (TS 3.4.9.1), Spent Fuel Pool Reactivity (TS 3.9.13) and Water Level – Storage Pool (TS 3.4.9.11) were not challenged by the event. Operators restored power to spent fuel pool cooling at 1054 in accordance with plant procedures. The shift manager declared an Unusual Event (UE) at 1101 based on the Emergency Action Level criteria for a loss of offsite power. The UE was terminated at 1427.

When the LOP occurred, the plant response was as expected except as described in the event description section of this LER.

This event is reportable in accordance with 10 CFR 50.73(a)(2)(iv) as an event or condition that resulted in the manual or automatic actuation of emergency AC electric power systems including emergency diesel generators.

The offsite TSO has initiated corrective actions to address the human performance aspects of this event. Additional corrective actions are being taken in accordance with the station's corrective action program.

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NARRATIVE *(If more space is required, use additional copies of NRC Form 366A)* **(17)**

1. **Event Description:**

At 1047 on April 25, 2007 with the plant shutdown (0% power) and in a defueled condition, a loss of offsite power (LOP) caused by a switching error on the part of the offsite transmission system operator (TSO) occurred at Millstone Power Station Unit 3 (MPS3). The MPS3 "A" emergency diesel generator (EDG) [DG] started as designed (the "B" EDG was out of service for planned maintenance) and supplied power to the "A" train 4160 volt AC emergency bus [EK]. At that time, the diesel sequencer closed the breakers for service water [BI] and reactor plant component cooling water [CC]. Operators restored power to spent fuel pool cooling at 1054 in accordance with plant procedures. The shift manager declared an Unusual Event (UE) at 1101 based on the Emergency Action Level criteria for a loss of offsite power. The UE was terminated at 1427.

At the time of the event, the applicable plant technical specifications (TS) such as Reactor Coolant System Pressure / Temperature Limits (TS 3.4.9.1), Spent Fuel Pool Reactivity (TS 3.9.13) and Water Level – Storage Pool (TS 3.4.9.11) were not challenged by the event.

When the LOP occurred, the plant response was as expected with the following exceptions or challenges to the operators:

The "A" train control building chiller was identified in the trip condition approximately 10 minutes after the LOP. The loss of power apparently caused the bearing oil temperature to reach the trip set point. Operators successfully restarted the chiller. (The set point has subsequently been raised to address this situation.)

Firewatches were suspended in some locations until normal power and plant lighting were restored (normal power was restored at approximately 1424).

Since the plant was in a refueling outage, numerous personnel were working throughout the plant, including within confined spaces not normally accessible. The LOP resulted in the loss of all normal and temporary lighting. A controlled evacuation of workspaces was carried out. There were no injuries or radioactive releases attributable to this event. Additionally, Millstone Power Station Unit 2 remained at 100% power and connected to the grid throughout the event.

This event is reportable in accordance with 10 CFR 50.73(a)(2)(iv) as an event or condition that resulted in manual or automatic actuation of emergency AC electric power systems including emergency diesel generators.

2. **Cause:**

The loss of offsite power was caused by a human error on the part of the offsite transmission system operator (TSO). At the time of the event, offsite power to MPS3 was being back-fed via the normal station service transformer (15G-3SA-NSST). The MPS3 reserve station service transformer (15G-23SA-RSST) was removed from service for maintenance. Due to an emergent fault in another portion of the transmission system, one of the offsite supply lines (#348) needed to be removed from service by operations at the offsite TSO at the Connecticut Valley Electric Exchange (CONVEX). This required operation of the Millstone Power Station 15G-14T-2 and 15G-15T-2 switchyard breakers. However, operations at the offsite TSO facility resulted in the 15G-13T-2 breaker being opened instead of the 15G-15T-2 breaker. This error resulted in a LOP to MPS3 (see attached sketch). (During MPS3 operation at power, interlocks exist which would have prevented the offsite TSO from making this switching error.) Based upon a review by the offsite TSO, inadequate self-checking by the offsite TSO System Operations Supervisor prior to breaker manipulation was the apparent cause of this human error.

3. Assessment of Safety Consequences:

The event had no safety consequences because of its duration and the defueled condition of the plant. The LOP had no impact on the parameters addressed in the few applicable plant technical specifications (TS) (such as Reactor Coolant System Pressure / Temperature Limits (TS 3.4.9.1), Spent Fuel Pool Reactivity (TS 3.9.13) and Water Level – Storage Pool (TS 3.4.9.11)). There was no measurable rise in Spent Fuel Pool temperature. Emergency equipment functioned as designed, operator actions were performed consistent with applicable procedures, and there were no radioactive releases and no injuries.

4. Corrective Action:

The offsite TSO has initiated corrective actions to address the human performance aspects of this event. Additional corrective actions at Millstone are being taken in accordance with the station's corrective action program.

5. Previous Occurrences:

There have been no previous occurrences of a loss of offsite power at MPS3.

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

FACILITY NAME (1)	DOCKET (2)	LER NUMBER (6) YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	PAGE (3)
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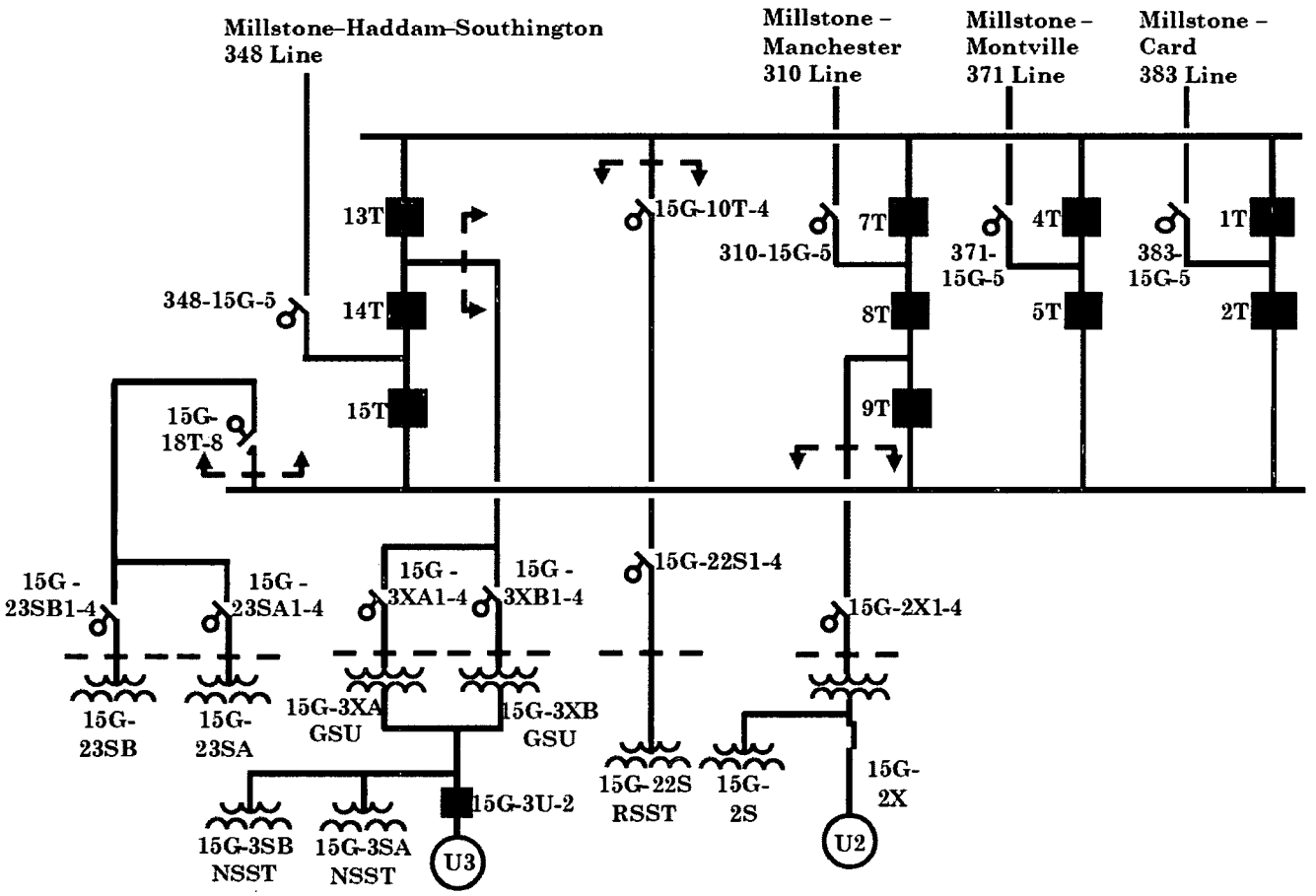
NARRATIVE *(If more space is required, use additional copies of NRC Form 366A)* **(17)**



Millstone 15G one-line diagram